

EPA-PNL-3116

**Sheila
Eckman/R10/USEPA/US**

04/12/2012 01:17 PM

To Phil North

cc

bcc

Subject Fw: Humble Claim

fyi

Sheila M Eckman
Bristol Bay Watershed Assessment Project Manager
EPA Region 10 Office of Ecosystems, Tribal and Public Affairs
(206)553-0455

----- Forwarded by Sheila Eckman/R10/USEPA/US on 04/12/2012 10:17 AM -----

From: Michael Wiedmer <mwiedmer@uw.edu>
To: <rseal@usgs.gov>, Sheila Eckman/R10/USEPA/US@EPA, Kate Schofield/DC/USEPA/US@EPA
Date: 04/11/2012 02:06 AM
Subject: Humble Claim

In case you have not seen it, I am passing along the 2012 mining exploration permit application covering the Humble claim. Pages 18-21 of the attachment outline this year's exploration area. While perhaps a minor point, what caught my eye is that the spatial extent of this year's exploration activities cover an area much greater than the mining footprint shown in Figure 8.4 of the internal review draft: "BBA_IRdraft_v1_clean[1]". I leave it to you to decide how and if this new information should be incorporated into the draft. If you do decide to update Figure 8.4, note that it does not accurately reflect the substantial revisions to Alaska's Anadromous Waters Catalog (AWC) that will take effect in June 2012. I collected the field data responsible for these revisions and can provide maps based on this new information if you need it.

Mike

Michael Wiedmer
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A123097_Millrock_Humble_Proj.pdf

FJK
2/14/12

HUMBLE PROJECT

STATE OF ALASKA Multi-Agency Permit Application (AHEA) FOR HARDROCK EXPLORATION

Multi-Year Permit Duration: 2012 Current Year's Application No.: A123097

APPLICANT AND SITE INFORMATION		
What type activity are you planning to perform? (1) <input checked="" type="checkbox"/> Exploration/Reclamation <input type="checkbox"/> Reclamation <input type="checkbox"/> Access Equipment		Are the mineral properties? (2) <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Private (Patented) <input type="checkbox"/> Private (Native Corporation Land)
Check, as appropriate, and indicate permit number, if any of the following agencies have issued permits for these mineral properties: (3) <input type="checkbox"/> DEC- APDES Wastewater Discharge Permit No: _____ Have you ever had a USACE Permit? <input type="checkbox"/> Yes <input type="checkbox"/> No Permit # _____ <input type="checkbox"/> ADF&G - Habitat Permit No: _____ <input type="checkbox"/> Other State or Federal Permit No: _____ For new operations, please sign below if you will accept a Preliminary Jurisdictional determination (PJD) from the Corps of Engineers: _____ Signature needed only for initial application. PJDs are not appealable. If you want to appeal the jurisdictional determination, you must prepare an Approved JD. For more info, contact the Corps of Engineers in Anchorage (907) 753-2712 or in Fairbanks (907) 474-2166.		
Name of ALL Mineral Property Owners: (4) (Attach Separate Sheet As Necessary) <u>Millrock Alaska LLC</u>	Lessee: (5)	Operator: (6) <u>Millrock Exploration Corporation</u>
Mailing Address for official correspondence: P.O. Box 200867 719 E 11th Ave, Suite C Anchorage AK, 99520	Mailing Address for official correspondence:	Mailing Address for official correspondence: P.O. Box 200867 719 E 11th Ave, Suite C Anchorage AK, 99520
Home Phone (Winter):	Home Phone (Winter):	Home Phone (Winter):
Work Phone (Winter): 907-677-7479	Work Phone (Winter):	Work Phone (Winter): 907-677-7479
Home Phone (Summer):	Home Phone (Summer):	Home Phone (Summer):
Work Phone (Summer): same as winter	Work Phone (Summer):	Work Phone (Summer): same as winter
Cell/Satellite Phone:	Cell/Satellite Phone:	Cell/Satellite Phone:
FAX: 907-677-3599	FAX:	FAX: 907-677-3599
E-mail: swhicker@millrockresources.com	E-mail:	E-mail: swhicker@millrockresources.com
Operator's Federal EIN Number (7)	Number of Workers: (8) 10 - 15	Intended Start-up/Shut Down (Month/Day) (9) Mid-April 2012 to Nov 2012
Mining District: (10) Bristol Bay	Applicable U.S.G.S. Quad Map: (11) Dillingham C-5, C-6 & D-5	On What Stream Is This Activity? (12) Napotoli Creek & Klutuk Creek
Legal Description of Mineral Properties To Be Worked (Township; Range; Section; Meridian): (13) All or portions of Townships 4 - 7 South, Ranges 49 & 51 West, Seward Meridian Legal Description of all other project-related activities, such as camps and water access points (Township; Range; Section; Meridian): Same as above		

LIST ONLY MINERAL PROPERTIES WITH CURRENT DISTURBANCE AND/OR THOSE ON WHICH MECHANIZED EXPLORATION ACTIVITY WILL OCCUR (14)					
Attach additional sheets as necessary AND provide in electronic, tabular format if you are submitting more than 20 properties (electronic copies can be submitted via e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet)					
	ADL/ BLM / USMS NUMBER	PROPERTY NAME		ADL/ BLM / USMS NUMBER	PROPERTY NAME
1.	see attached Table #1		11.		
2.			12.		
3.			13.		
4.			14.		
5.			15.		
6.			16.		
7.			17.		
8.			18.		
9.			19.		
10.			20.		

DESCRIPTION OF OPERATIONS (15)					
List any equipment that will be crossing streams during exploration activities (type; size; purpose; and number of each).					
N/A					
List any equipment that will be used in the stream during exploration activity (type; size; purpose; and number of each).					
N/A					
List all streams, including unnamed streams, with the aliquot legal description of the crossing point (Please attach additional sheet as necessary).					
	STREAM NAME	TOWNSHIP	RANGE	SECTION	MERIDIAN
1.					
2.					
3.					
4.					
5.					
6.					

ADL Number	Claim Owner	Status	Claim Name	Meridian Township Range Section	Acres
ADL 700041	Millrock Alaska Llc	Active (35)	KM 1	S005S050W09	160
ADL 700050	Millrock Alaska Llc	Active (35)	KM 10	S005S050W10	160
ADL 700140	Millrock Alaska Llc	Active (35)	KM 100	S006S050W03	160
ADL 700141	Millrock Alaska Llc	Active (35)	KM 101	S006S050W03	160
ADL 700142	Millrock Alaska Llc	Active (35)	KM 102	S006S050W02	160
ADL 700143	Millrock Alaska Llc	Active (35)	KM 103	S006S050W02	160
ADL 700149	Millrock Alaska Llc	Active (35)	KM 109	S006S050W09	160
ADL 700051	Millrock Alaska Llc	Active (35)	KM 11	S005S050W11	160
ADL 700150	Millrock Alaska Llc	Active (35)	KM 110	S006S050W10	160
ADL 700151	Millrock Alaska Llc	Active (35)	KM 111	S006S050W10	160
ADL 700152	Millrock Alaska Llc	Active (35)	KM 112	S006S050W11	160
ADL 700153	Millrock Alaska Llc	Active (35)	KM 113	S006S050W11	160
ADL 700159	Millrock Alaska Llc	Active (35)	KM 119	S006S050W09	160
ADL 700052	Millrock Alaska Llc	Active (35)	KM 12	S005S050W11	160
ADL 700160	Millrock Alaska Llc	Active (35)	KM 120	S006S050W10	160
ADL 700161	Millrock Alaska Llc	Active (35)	KM 121	S006S050W10	160
ADL 700162	Millrock Alaska Llc	Active (35)	KM 122	S006S050W11	160
ADL 700169	Millrock Alaska Llc	Active (35)	KM 129	S005S050W04	160
ADL 700170	Millrock Alaska Llc	Active (35)	KM 130	S005S050W03	160
ADL 700171	Millrock Alaska Llc	Active (35)	KM 131	S005S050W03	160
ADL 700172	Millrock Alaska Llc	Active (35)	KM 132	S005S050W02	160
ADL 700174	Millrock Alaska Llc	Active (35)	KM 134	S005S050W04	160
ADL 700175	Millrock Alaska Llc	Active (35)	KM 135	S005S050W03	160
ADL 700176	Millrock Alaska Llc	Active (35)	KM 136	S005S050W03	160
ADL 700177	Millrock Alaska Llc	Active (35)	KM 137	S005S050W02	160
ADL 700180	Millrock Alaska Llc	Active (35)	KM 140	S005S050W09	160
ADL 700184	Millrock Alaska Llc	Active (35)	KM 144	S005S050W09	160
ADL 700055	Millrock Alaska Llc	Active (35)	KM 15	S005S050W16	160
ADL 700056	Millrock Alaska Llc	Active (35)	KM 16	S005S050W15	160
ADL 700057	Millrock Alaska Llc	Active (35)	KM 17	S005S050W15	160
ADL 700058	Millrock Alaska Llc	Active (35)	KM 18	S005S050W14	160
ADL 700225	Millrock Alaska Llc	Active (35)	KM 185	S006S050W04	160
ADL 700228	Millrock Alaska Llc	Active (35)	KM 188	S006S050W04	160
ADL 705011	Millrock Alaska Llc	Active (35)	KM 190	S004S049W20	160
ADL 705012	Millrock Alaska Llc	Active (35)	KM 191	S004S049W21	160
ADL 705013	Millrock Alaska Llc	Active (35)	KM 192	S004S049W21	160
ADL 705014	Millrock Alaska Llc	Active (35)	KM 193	S004S049W22	160
ADL 705017	Millrock Alaska Llc	Active (35)	KM 196	S004S049W29	160
ADL 705018	Millrock Alaska Llc	Active (35)	KM 197	S004S049W28	160
ADL 705019	Millrock Alaska Llc	Active (35)	KM 198	S004S049W28	160
ADL 705020	Millrock Alaska Llc	Active (35)	KM 199	S004S049W27	160
ADL 700042	Millrock Alaska Llc	Active (35)	KM 2	S005S050W10	160
ADL 705021	Millrock Alaska Llc	Active (35)	KM 200	S004S049W27	160
ADL 705023	Millrock Alaska Llc	Active (35)	KM 202	S004S049W29	160
ADL 705024	Millrock Alaska Llc	Active (35)	KM 203	S004S049W28	160
ADL 705025	Millrock Alaska Llc	Active (35)	KM 204	S004S049W28	160
ADL 705026	Millrock Alaska Llc	Active (35)	KM 205	S004S049W27	160
ADL 705027	Millrock Alaska Llc	Active (35)	KM 206	S004S049W27	160
ADL 705029	Millrock Alaska Llc	Active (35)	KM 208	S004S049W32	160
ADL 705030	Millrock Alaska Llc	Active (35)	KM 209	S004S049W33	160
ADL 705031	Millrock Alaska Llc	Active (35)	KM 210	S004S049W33	160
ADL 705032	Millrock Alaska Llc	Active (35)	KM 211	S004S049W34	160
ADL 700062	Millrock Alaska Llc	Active (35)	KM 22	S005S050W16	160
ADL 705045	Millrock Alaska Llc	Active (35)	KM 224	S005S050W02	160
ADL 700063	Millrock Alaska Llc	Active (35)	KM 23	S005S050W15	160
ADL 705057	Millrock Alaska Llc	Active (35)	KM 236	S006S050W08	160
ADL 705058	Millrock Alaska Llc	Active (35)	KM 237	S006S050W09	160
ADL 700064	Millrock Alaska Llc	Active (35)	KM 24	S005S050W15	160
ADL 705061	Millrock Alaska Llc	Active (35)	KM 240	S006S050W08	160
ADL 705062	Millrock Alaska Llc	Active (35)	KM 241	S006S050W08	160
ADL 705063	Millrock Alaska Llc	Active (35)	KM 242	S006S050W09	160
ADL 705066	Millrock Alaska Llc	Active (35)	KM 245	S006S050W17	160
ADL 705067	Millrock Alaska Llc	Active (35)	KM 246	S006S050W17	160
ADL 705068	Millrock Alaska Llc	Active (35)	KM 247	S006S050W16	160

Table 1: Humble 2012 Drill Areas Claim List

ADL Number	Claim Owner	Status	Claim Name	Meridian Township Range Section	Acres
ADL 705069	Millrock Alaska Llc	Active (35)	KM 248	S006S050W16	160
ADL 705070	Millrock Alaska Llc	Active (35)	KM 249	S006S050W15	160
ADL 700065	Millrock Alaska Llc	Active (35)	KM 25	S005S050W14	160
ADL 705071	Millrock Alaska Llc	Active (35)	KM 250	S006S050W15	160
ADL 705072	Millrock Alaska Llc	Active (35)	KM 251	S006S050W14	160
ADL 705077	Millrock Alaska Llc	Active (35)	KM 256	S006S050W17	160
ADL 705078	Millrock Alaska Llc	Active (35)	KM 257	S006S050W17	160
ADL 705079	Millrock Alaska Llc	Active (35)	KM 258	S006S050W16	160
ADL 705080	Millrock Alaska Llc	Active (35)	KM 259	S006S050W16	160
ADL 705081	Millrock Alaska Llc	Active (35)	KM 260	S006S050W15	160
ADL 705082	Millrock Alaska Llc	Active (35)	KM 261	S006S050W15	160
ADL 705083	Millrock Alaska Llc	Active (35)	KM 262	S006S050W14	160
ADL 705088	Millrock Alaska Llc	Active (35)	KM 267	S006S050W20	160
ADL 705089	Millrock Alaska Llc	Active (35)	KM 268	S006S050W20	160
ADL 705090	Millrock Alaska Llc	Active (35)	KM 269	S006S050W21	160
ADL 705091	Millrock Alaska Llc	Active (35)	KM 270	S006S050W21	160
ADL 705092	Millrock Alaska Llc	Active (35)	KM 271	S006S050W22	160
ADL 705093	Millrock Alaska Llc	Active (35)	KM 272	S006S050W22	160
ADL 705094	Millrock Alaska Llc	Active (35)	KM 273	S006S050W23	160
ADL 705099	Millrock Alaska Llc	Active (35)	KM 278	S006S050W20	160
ADL 705100	Millrock Alaska Llc	Active (35)	KM 279	S006S050W20	160
ADL 705101	Millrock Alaska Llc	Active (35)	KM 280	S006S050W21	160
ADL 705102	Millrock Alaska Llc	Active (35)	KM 281	S006S050W21	160
ADL 705103	Millrock Alaska Llc	Active (35)	KM 282	S006S050W22	160
ADL 705104	Millrock Alaska Llc	Active (35)	KM 283	S006S050W22	160
ADL 705105	Millrock Alaska Llc	Active (35)	KM 284	S006S050W23	160
ADL 705109	Millrock Alaska Llc	Active (35)	KM 288	S006S050W30	160
ADL 705110	Millrock Alaska Llc	Active (35)	KM 289	S006S050W29	160
ADL 705111	Millrock Alaska Llc	Active (35)	KM 290	S006S050W29	160
ADL 705112	Millrock Alaska Llc	Active (35)	KM 291	S006S050W28	160
ADL 705113	Millrock Alaska Llc	Active (35)	KM 292	S006S050W28	160
ADL 705114	Millrock Alaska Llc	Active (35)	KM 293	S006S050W27	160
ADL 705115	Millrock Alaska Llc	Active (35)	KM 294	S006S050W27	160
ADL 705116	Millrock Alaska Llc	Active (35)	KM 295	S006S050W26	160
ADL 700043	Millrock Alaska Llc	Active (35)	KM 3	S005S050W10	160
ADL 705121	Millrock Alaska Llc	Active (35)	KM 300	S006S050W30	160
ADL 705122	Millrock Alaska Llc	Active (35)	KM 301	S006S050W30	160
ADL 705123	Millrock Alaska Llc	Active (35)	KM 302	S006S050W29	160
ADL 705124	Millrock Alaska Llc	Active (35)	KM 303	S006S050W29	160
ADL 705125	Millrock Alaska Llc	Active (35)	KM 304	S006S050W28	160
ADL 705126	Millrock Alaska Llc	Active (35)	KM 305	S006S050W28	160
ADL 705127	Millrock Alaska Llc	Active (35)	KM 306	S006S050W27	160
ADL 705128	Millrock Alaska Llc	Active (35)	KM 307	S006S050W27	160
ADL 705129	Millrock Alaska Llc	Active (35)	KM 308	S006S050W26	160
ADL 705133	Millrock Alaska Llc	Active (35)	KM 312	S006S051W36	160
ADL 705134	Millrock Alaska Llc	Active (35)	KM 313	S006S050W31	160
ADL 705135	Millrock Alaska Llc	Active (35)	KM 314	S006S050W31	160
ADL 705136	Millrock Alaska Llc	Active (35)	KM 315	S006S050W32	160
ADL 705137	Millrock Alaska Llc	Active (35)	KM 316	S006S050W32	160
ADL 705138	Millrock Alaska Llc	Active (35)	KM 317	S006S050W33	160
ADL 705139	Millrock Alaska Llc	Active (35)	KM 318	S006S050W33	160
ADL 705140	Millrock Alaska Llc	Active (35)	KM 319	S006S050W34	160
ADL 705141	Millrock Alaska Llc	Active (35)	KM 320	S006S050W34	160
ADL 705142	Millrock Alaska Llc	Active (35)	KM 321	S006S050W35	160
ADL 705144	Millrock Alaska Llc	Active (35)	KM 323	S006S051W36	160
ADL 705145	Millrock Alaska Llc	Active (35)	KM 324	S006S050W31	160
ADL 705146	Millrock Alaska Llc	Active (35)	KM 325	S006S050W31	160
ADL 705147	Millrock Alaska Llc	Active (35)	KM 326	S006S050W32	160
ADL 705148	Millrock Alaska Llc	Active (35)	KM 327	S006S050W32	160
ADL 705149	Millrock Alaska Llc	Active (35)	KM 328	S006S050W33	160
ADL 705150	Millrock Alaska Llc	Active (35)	KM 329	S006S050W33	160
ADL 705151	Millrock Alaska Llc	Active (35)	KM 330	S006S050W34	160
ADL 705152	Millrock Alaska Llc	Active (35)	KM 331	S006S050W34	160
ADL 705153	Millrock Alaska Llc	Active (35)	KM 332	S006S050W35	160

Table 1: Humble 2012 Drill Areas Claim List

ADL Number	Claim Owner	Status	Claim Name	Meridian Township Range Section	Acres
ADL 705155	Millrock Alaska Llc	Active (35)	KM 334	S007S051W01	160
ADL 705156	Millrock Alaska Llc	Active (35)	KM 335	S007S050W06	160
ADL 705157	Millrock Alaska Llc	Active (35)	KM 336	S007S050W06	160
ADL 705158	Millrock Alaska Llc	Active (35)	KM 337	S007S050W05	160
ADL 705159	Millrock Alaska Llc	Active (35)	KM 338	S007S050W05	160
ADL 705160	Millrock Alaska Llc	Active (35)	KM 339	S007S050W04	160
ADL 705161	Millrock Alaska Llc	Active (35)	KM 340	S007S050W04	160
ADL 705162	Millrock Alaska Llc	Active (35)	KM 341	S007S050W03	160
ADL 705163	Millrock Alaska Llc	Active (35)	KM 342	S007S050W03	160
ADL 705164	Millrock Alaska Llc	Active (35)	KM 343	S007S050W02	160
ADL 705166	Millrock Alaska Llc	Active (35)	KM 345	S007S051W01	160
ADL 705167	Millrock Alaska Llc	Active (35)	KM 346	S007S050W06	160
ADL 705168	Millrock Alaska Llc	Active (35)	KM 347	S007S050W06	160
ADL 705169	Millrock Alaska Llc	Active (35)	KM 348	S007S050W05	160
ADL 705170	Millrock Alaska Llc	Active (35)	KM 349	S007S050W05	160
ADL 705171	Millrock Alaska Llc	Active (35)	KM 350	S007S050W04	160
ADL 705172	Millrock Alaska Llc	Active (35)	KM 351	S007S050W04	160
ADL 705173	Millrock Alaska Llc	Active (35)	KM 352	S007S050W03	160
ADL 705174	Millrock Alaska Llc	Active (35)	KM 353	S007S050W03	160
ADL 705175	Millrock Alaska Llc	Active (35)	KM 354	S007S050W02	160
ADL 705177	Millrock Alaska Llc	Active (35)	KM 356	S007S051W12	160
ADL 705178	Millrock Alaska Llc	Active (35)	KM 357	S007S050W07	160
ADL 705179	Millrock Alaska Llc	Active (35)	KM 358	S007S050W07	160
ADL 705180	Millrock Alaska Llc	Active (35)	KM 359	S007S050W08	160
ADL 705181	Millrock Alaska Llc	Active (35)	KM 360	S007S050W08	160
ADL 705184	Millrock Alaska Llc	Active (35)	KM 363	S007S050W07	160
ADL 705185	Millrock Alaska Llc	Active (35)	KM 364	S007S050W07	160
ADL 705186	Millrock Alaska Llc	Active (35)	KM 365	S007S050W08	160
ADL 700044	Millrock Alaska Llc	Active (35)	KM 4	S005S050W11	160
ADL 700045	Millrock Alaska Llc	Active (35)	KM 5	S005S050W11	160
ADL 700048	Millrock Alaska Llc	Active (35)	KM 8	S005S050W09	160
ADL 700129	Millrock Alaska Llc	Active (35)	KM 89	S006S050W04	160
ADL 700049	Millrock Alaska Llc	Active (35)	KM 9	S005S050W10	160
ADL 700130	Millrock Alaska Llc	Active (35)	KM 90	S006S050W03	160
ADL 700131	Millrock Alaska Llc	Active (35)	KM 91	S006S050W03	160
ADL 700132	Millrock Alaska Llc	Active (35)	KM 92	S006S050W02	160
ADL 700139	Millrock Alaska Llc	Active (35)	KM 99	S006S050W04	160
Pending	Millrock Alaska Llc	Active (35)	KM 376	S007S051W36	160
Pending	Millrock Alaska Llc	Active (35)	KM 377	S007S051W36	160
Pending	Millrock Alaska Llc	Active (35)	KM 378	S007S051W25	160
Pending	Millrock Alaska Llc	Active (35)	KM 379	S007S051W25	160
Pending	Millrock Alaska Llc	Active (35)	KM 380	S007S051W24	160
Pending	Millrock Alaska Llc	Active (35)	KM 392	S007S051W23	160
Pending	Millrock Alaska Llc	Active (35)	KM 393	S007S051W26	160
Pending	Millrock Alaska Llc	Active (35)	KM 394	S007S051W26	160
Pending	Millrock Alaska Llc	Active (35)	KM 395	S007S051W35	160
Pending	Millrock Alaska Llc	Active (35)	KM 396	S007S051W35	160
Pending	Millrock Alaska Llc	Active (35)	KM 397	S007S051W35	160
Pending	Millrock Alaska Llc	Active (35)	KM 398	S007S051W35	160
Pending	Millrock Alaska Llc	Active (35)	KM 399	S007S051W26	160
Pending	Millrock Alaska Llc	Active (35)	KM 400	S007S051W26	160
Pending	Millrock Alaska Llc	Active (35)	KM 401	S007S051W23	160
Pending	Millrock Alaska Llc	Active (35)	KM 414	S007S051W22	160
Pending	Millrock Alaska Llc	Active (35)	KM 415	S007S051W27	160
Pending	Millrock Alaska Llc	Active (35)	KM 416	S007S051W27	160
Pending	Millrock Alaska Llc	Active (35)	KM 417	S007S051W34	160
Pending	Millrock Alaska Llc	Active (35)	KM 418	S007S051W34	160
Pending	Millrock Alaska Llc	Active (35)	KM 419	S007S051W34	160
Pending	Millrock Alaska Llc	Active (35)	KM 420	S007S051W34	160
Pending	Millrock Alaska Llc	Active (35)	KM 421	S007S051W27	160
Pending	Millrock Alaska Llc	Active (35)	KM 422	S007S051W27	160
Pending	Millrock Alaska Llc	Active (35)	KM 423	S007S051W22	160

ACCESS OUTSIDE OF CLAIM BLOCK

(16)

Access across state land may require a "Land Use Permit" from the Division of Mining, Land & Water. Access across federal land requires approval of the managing federal agency. Access across private property, including native corporation lands, mental health trust lands, and other private property, may require authorization from the private property owner. It is the responsibility of the applicant to contact the appropriate managing landowner to assure all required permits for access are obtained.

A completed access map must be submitted with your application. Copies of U.S.G.S. topographic maps at a scale of 1"=1 mile must clearly indicate the proposed access route from start to finish and include appropriate legal descriptions (township and range) on each map sheet. The quadrangle map name should also be indicated (Healy A-3, etc.). Paper size should be limited to 8 1/2" x 11". Do not tape maps together.

Access outside the claim block is on: ☐ State Land ☐ Federal Land ☐ Private Land N/A

Access is: ☐ Existing ☐ To Be Constructed ☐ Both (Explain): Access by helicopter

If access is to be constructed, indicate: Type: _____ Length: _____ Feet Width: _____ Feet Depth: _____ Feet

A Right-of-Way (ROW) Permit is required from the Department of Natural Resources, Division of Mining, Land & Water, to construct access on state land outside a claim block. "Construction" is the use of mechanized equipment to create or improve access, including dropping the blade or bucket, and/or adding gravel to the surface. Contact the Division of Mining, Land & Water in Anchorage (907) 269-8647, or Fairbanks (907) 451-2793 to determine if a ROW permit is required - applications may require six months to one year to process. NOTE: Any access constructed across "wetlands", ponds, streams, or other waters of the U.S. including those within your claim block, may require a Corps of Engineers (COE) "404" permit. It is the responsibility of the applicant to contact the COE for a determination as to whether or not this permit is required.

Indicate Type(s) of Access:

- ☐ All Season Road -- A road (may be an improved dirt road) intended to be used during all seasons of the year without causing long term damage to the road.
- ☐ Winter Cross Country Travel -- Travel is off an all season road with equipment/vehicles other than a standard 4-wheel drive pick-up truck, snowmobile, or 4-wheeler/6 wheeler All Terrain Vehicle (ATV), provided the vegetative mat is not killed or broken.
- ☐ Summer Cross Country Travel -- Summer travel without a permit is limited to generally allowed uses on state land (11 AAC 96.020). Summer travel beyond generally allowed uses requires a permit that is requested and permitted by DNR-Lands. A performance guarantee for cross-country travel on state lands may be required. If required, the performance guarantee must be received before a permit will be issued and will be released after travel is completed and no trail damage has occurred. For questions about generally allowed uses, see contact the DNR Public Information Center (Anchorage (907) 269-8400, Fairbanks (907) 451-2705, Juneau (907) 465-3400) or view a fact sheet at http://dnr.alaska.gov/mlw/factsht/gen_allow_use.pdf

- ☐ Does the proposed route of travel include use of RS 2477 access? ☐ Yes ☐ No. If the RS 2477 ROW has a State of Alaska RST number please list []. If not, do you wish to nominate the route for RST assertion? ☐ Yes ☐ No.

☐ Airstrip -- Indicate length: _____ Feet ☐ River

If you are transporting equipment and/or fuel and require winter cross country travel authorization, please complete the following:

- 1) List all equipment and vehicles being transported:

N/A

- 2) Are you transporting fuel? ☐ Yes ☒ No If "yes", indicate type and amount:

- 3) Are you transporting other petroleum products? ☐ Yes ☒ No If "yes", indicate type and amount:

- 4) How are the fuel/petroleum products contained? (i.e., drums, bladders, steel tanks, etc.) Indicate size of each container:

N/A

- 5) How are the fuel/petroleum products being transported (i.e., skid-mounted tank; trailer; 55 gallon drums on skid; tanker truck, etc.)? N/A

- 6) Indicate proposed dates for each period of cross country travel:

N/A

NOTE: All cross-country travel must be specifically authorized by the appropriate land manager(s) prior to the commencement of travel. Travel may not be authorized if trail conditions indicate damage could occur.

OVERBURDEN**(17)**Type: ☐ None ☐ Gravel, Average Depth: _____ Feet ☒ Organic Material, Average Depth: 3 Feet**EXPLORATION TRENCHING****(18)**

(Indicate Locations On Sketch Sheet or Topographic Map)

Estimated Number of Trenches To Be Cut: None Type of Equipment to be Used: N/AAverage Size of Disturbed Area Per Trench: Length: 0 Feet Width: 0 Feet Depth: 0 Feet**EXPLORATION DRILLING****(19)**

(Indicate Locations On Sketch Sheet or Topographic Map)

Number of Holes To Be Drilled: 20 Type of Drill Used: Diamond Core, Reverse Circulation, Rotary Air Blast, or Air CoreEstimated Maximum Depth: 1,500 Feet Diameter of Holes: (NQ2) 2 Inches

How Will Drill Holes Be Plugged Upon Completion (Please note minimum requirements on reclamation page)? Upon completion, all boreholes will be plugged with volclay grout, a bentonite clay grout, or equivalent, from top to bottom. All artesian zones will be grouted and plugged prior to abandonment.

PLEASE PROVIDE MATERIALS SAFETY DATA SHEETS FOR ALL DRILLING ADDITIVES TO BE USED.**EXPLOSIVES****(20)**Will Explosives Be Used? ☐ Yes ☒ No If "Yes", Indicate: Type: _____

Amount: _____

STRUCTURES/FACILITIES**(21)**

(Placement and use of any surface structure must be requested in writing and approved in advance)

(Include location, claim name and number, on sketch sheet and topographic map)

(An active AHEA must be maintained for structures to remain authorized AS 38.05.255(a))

☒ Camp facilities not required☐ Request use of existing facilities (Indicate number and size of each): Area of Camp: Length _____ feet Width _____ feet☐ Frame _____ ☐ Trailer _____ ☐ Tent/Tent Frame _____☐ Request authorization to construct or place (Indicate number and size of each): Area of Camp: _____ (length) _____ (width)☐ Frame _____ ☐ Trailer _____ ☒ Tent/Tent Frame 2

In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any buildings, structures, objects, or artifacts that were located on the site prior to conducting permitted activities – If you have questions please contact Mark Rollins of SHPO at (907) 269-8722 or mark.rollins@alaska.gov

FUEL**(22)**Total Volume of Fuel Stored in 55 Gallon or Larger Containers: 500 Gallons

Fuel volumes larger than 1320 gallons must meet EPA Spill Prevention Control and Countermeasures (SPCC) regulations 40 CFR 112. For additional information on approvable SPCC plans see <http://www.epa.gov/osweroe1/content/spcc/> or contact Matthew Carr of EPA at (907) 271-3616 or Carr.Matthew@epa.gov.

Indicate Distance Stored From Flowing Waters: 100 FeetAre Fuel Containment Berms Around Storage Containers? ☒ Yes ☐ No Is Berm Area Lined? ☒ Yes ☐ No

WATER USE AUTHORIZATIONS

(23)

Water usage may require authorization by either a Temporary Water Use Permit or a Water Rights Permit or Certificate. Information provided in this application will be used to determine the quantity of water that you can be authorized to use for your exploration operation.

Do you currently have a Temporary Water Use Authorization, Water Rights Permit or Certificate? ☐ Yes ☒ No

If yes, please indicate TWUP/ADL/LAS Number(s): _____
(If no, please contact the Division of Mining, Land & Water, Water Resource Section in Fairbanks at (907) 451-2790)

Total quantity of water required for all exploration and camp activity 7,200 gpd. Number of pumps 1

Water required for camp use ☐ yes ☒ No

Quantity of water required for camp use 0 gpd. Camp water source N/A

Latitude _____ Longitude _____ NAD 83 Datum

Or Meridian: _____ Township: _____ Range: _____ Section: _____

(one way to obtain location information is with the point query tool in the Alaska Mapper <http://www.mapper.landrecords.info/>)

Camp pump intake diameter N/A Camp pump rate 0 gallons per minute

Water tank size (if required) N/A gallons

WATER USE

(24)

☐ No Drill Water required

Provide a list of all water source withdrawal points, water body names, location (MTRS or Lat/Long in NAD 83) along with a legible detailed topographic map. Attach additional sheets as necessary AND provide in electronic, tabular format if you are submitting more than 10 Water Sources. (electronic copies can be submitted via e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet)

	WATER SOURCE NAME	SOURCE TYPE (WELL, POND, STREAM, LAKE, ETC.)	ESTIMATED AMOUNT OF DRILL WATER	PUMP INTAKE DIAMETER	PUMP RATE IN GPM	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
1.	See Attached Table #2	Stream	7,200 GPD (max)	1.5 inches	5 gpm		
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

☒ Check if amount of drill water, pump rate and intake diameter is the same for all water sources

Table 2: Humble Potential Water Sources for 2012 Drilling Program

A123097

Water Source	Quadrant	Meridian/Township/Range/Section	Quarter-quarter Section
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Northernmost Polygon

Stream	Dillingham D-5	S004S049W22	SW
Stream	Dillingham D-5	S004S049W27	NW
Stream	Dillingham D-5	S004S049W28	NW
Stream	Dillingham D-5	S004S049W28	NE
Stream	Dillingham D-5	S004S049W28	SW
Stream	Dillingham D-5	S004S049W28	SE
Stream	Dillingham D-5	S004S049W29	SE
Stream	Dillingham D-5	S004S049W33	NW

Northern Polygon

Stream	Dillingham D-5	S005S050W04	SE
Stream	Dillingham D-5	S005S050W03	NW
Stream	Dillingham D-5	S005S050W03	SW
Stream	Dillingham D-5	S005S050W03	SE
Stream	Dillingham D-5	S005S050W02	SE
Stream	Dillingham D-5	S005S050W09	NW
Stream	Dillingham D-5	S005S050W09	NE
Stream	Dillingham D-5	S005S050W09	SW
Stream	Dillingham D-5	S005S050W10	NW
Stream	Dillingham D-5	S005S050W10	NE
Stream	Dillingham C-5	S005S050W15	SE
Stream	Dillingham C-5	S005S050W14	SW

Large Polygon

Stream	Dillingham C-5	S006S050W02	NW
Stream	Dillingham C-5	S006S050W02	SW
Stream	Dillingham C-5	S006S050W03	NW
Stream	Dillingham C-5	S006S050W03	SW
Stream	Dillingham C-5	S006S050W03	SE
Stream	Dillingham C-5	S006S050W04	NW
Stream	Dillingham C-5	S006S050W04	NE
Stream	Dillingham C-5	S006S050W04	SW
Stream	Dillingham C-5	S006S050W04	SE
Stream	Dillingham C-5	S006S050W09	NW
Stream	Dillingham C-5	S006S050W09	NE
Stream	Dillingham C-5	S006S050W10	NW
Stream	Dillingham C-5	S006S050W10	NE
Stream	Dillingham C-5	S006S050W10	SW
Stream	Dillingham C-5	S006S050W10	SE

Table 2: Humble Potential Water Sources for 2012 Drilling Program

Water Source	Quadrant	Meridian/Township/Range/Section	Quarter-quarter Section
Stream	Dillingham C-5	S006S050W11	NW
Stream	Dillingham C-5	S006S050W15	NW
Stream	Dillingham C-5	S006S050W15	SW
Stream	Dillingham C-5	S006S050W17	SW
Stream	Dillingham C-5	S006S050W17	SE
Stream	Dillingham C-5	S006S050W20	SW
Stream	Dillingham C-5	S006S050W20	SE
Stream	Dillingham C-5	S006S050W21	NW
Stream	Dillingham C-5	S006S050W21	NE
Stream	Dillingham C-5	S006S050W22	NE
Stream	Dillingham C-5	S006S050W22	SE
Stream	Dillingham C-5	S006S050W22	NW
Stream	Dillingham C-5	S006S050W23	SW
Stream	Dillingham C-5	S006S050W27	NW
Stream	Dillingham C-5	S006S050W27	SW
Stream	Dillingham C-5	S006S050W27	SE
Stream	Dillingham C-5	S006S050W28	NW
Stream	Dillingham C-5	S006S050W28	NE
Stream	Dillingham C-5	S006S050W28	SW
Stream	Dillingham C-5	S006S050W28	SE
Stream	Dillingham C-5	S006S050W29	NW
Stream	Dillingham C-5	S006S050W29	NE
Stream	Dillingham C-5	S006S050W29	SW
Stream	Dillingham C-5	S006S050W29	SE
Stream	Dillingham C-5	S006S050W30	NE
Stream	Dillingham C-5	S006S051W36	NE
Stream	Dillingham C-5	S006S051W36	SE
Stream	Dillingham C-5	S006S050W31	NE
Stream	Dillingham C-5	S006S050W31	SW
Stream	Dillingham C-5	S006S050W31	SE
Stream	Dillingham C-5	S006S050W32	SE
Stream	Dillingham C-5	S006S050W32	NW
Stream	Dillingham C-5	S006S050W32	NE
Stream	Dillingham C-5	S006S050W33	SE
Stream	Dillingham C-5	S006S050W33	NW
Stream	Dillingham C-5	S006S050W33	NE
Stream	Dillingham C-5	S006S050W34	NW
Stream	Dillingham C-5	S006S050W34	NE
Stream	Dillingham C-5	S006S050W34	SE
Stream	Dillingham C-5	S006S050W35	SW
Stream	Dillingham C-5	S007S051W01	NE
Stream	Dillingham C-5	S007S050W06	NW
Stream	Dillingham C-5	S007S050W06	SE
Stream	Dillingham C-5	S007S050W06	NE
Stream	Dillingham C-5	S007S050W06	SW
Stream	Dillingham C-5	S007S050W05	NW

Table 2: Humble Potential Water Sources for 2012 Drilling Program

Water Source	Quadrant	Meridian/Township/Range/Section	Quarter-quarter Section
Stream	Dillingham C-5	S007S050W05	NE
Stream	Dillingham C-5	S007S050W05	SW
Stream	Dillingham C-5	S007S050W05	SE
Stream	Dillingham C-5	S007S050W04	SW
Stream	Dillingham C-5	S007S050W04	NW
Stream	Dillingham C-5	S007S050W04	NE
Stream	Dillingham C-5	S007S050W03	NE
Stream	Dillingham C-5	S007S050W03	NW
Stream	Dillingham C-5	S007S050W02	NW
Stream	Dillingham C-5	S007S050W02	SW
Stream	Dillingham C-5	S007S050W07	NE
Stream	Dillingham C-5	S007S050W07	SE
Stream	Dillingham C-5	S007S050W07	NW
Stream	Dillingham C-5	S007S051W12	NE

Southern Polygon

Stream	Dillingham C-6	S007S051W23	NW
Stream	Dillingham C-6	S007S051W23	SW
Stream	Dillingham C-6	S007S051W26	NW
Stream	Dillingham C-6	S007S051W26	SW
Stream	Dillingham C-6	S007S051W27	NW
Stream	Dillingham C-6	S007S051W27	NE
Stream	Dillingham C-6	S007S051W35	NW
Stream	Dillingham C-6	S007S051W35	NE
Stream	Dillingham C-6	S007S051W35	SE

**2012 Plan of Operations
Humble Exploration Project**

A123097

Date: February 2, 2012

Project Title: Humble Exploration

Project Description:

General

The activity for the Humble Exploration project entails conducting hard rock exploration through diamond core and Reverse Circulation (RC) drilling. The purpose of the exploration is to determine the presence, extent and quantity of the mineralization of copper, gold and molybdenum. Determining the geology of the area in which the minerals mentioned are located is also a goal of the exploration project.

During the 2012 field season a total of approximately 0.02 acres will be disturbed by 20 drill holes via these geological exploration activities. Drilling in bedrock will be conducted by Diamond Drill (DD), with potentially RC, Rotary Air Blast (RAB) or Air Core (AC) drilling through the overburden. Specific 2012 drill locations will be identified, mapped and submitted to Department of Natural Resources (DNR) at least 30 days prior to drilling. If there is a need to significantly modify a drill hole location, DNR would be notified 5 business days for drill holes located greater than 1,200 feet (ft) from original location area and 1 day for holes located between 600 – 1,200 ft from original location area.

Project Location

The exploration project is approximately 250 miles southwest of Anchorage, about 55 air miles NNE of the town of Dillingham, and approximately 25 air miles west of the village of Koliganek within Townships 4-7 South, Ranges 49 and 51 West, Seward Meridian. The exploration project is within the drainages of Napotoli Creek and Klutuk Creek, which are catalogued anadromous streams.

Drill Holes

One to two drill rigs will be at the exploration site. As mentioned above, the plan is to use RC, AC or RAB methods to drill through the overburden, and then follow it up with DD through bedrock to depth. If possible, one drill rig capable of both methods will be used to drill the overburden and bedrock. However, it is likely that two rigs will be required to conduct both methods. The drill rigs are moved by helicopter and supported by timbers. A maximum of 20 holes will be drilled to a maximum depth of 1,500 ft. The 20 drill holes will result in approximately 0.02 acres of disturbance. Water for the diamond drilling will be acquired from nearby streams and ponds. Screens will be placed at intakes in all water bodies. The drill holes will not be drilled within 100 ft of anadromous streams. In addition, no borehole drilling water will be allowed to enter streams or wetlands directly, and emergency spill kits and absorbent material will be kept at the drill site.

Water for drilling operations will be supplied via a 5 gallon per minute (gpm) pump through a maximum 4,000 ft length of pipe. The pump intake is 1.5 inches, and will work at a maximum rate of 5 gpm for 24 hours resulting in a maximum daily withdrawal rate of 7,200 gallons per day (gpd). There are no known seasonal volumes of water or water flow rates for Napotoli or Klutuk Creeks. Review of the USGS Water Resources webpage indicated the three nearest streamflow measuring points are at Nushagak River at Ekwok, the Nuyakuk River NR Dillingham, and the Grant Lake Outlet NR Aleknagik which reported minimum flows of 3,619,369,600 gpd, 497,663,320 gpd, and 5,170,528 gpd respectively.

2012 Plan of Operations
Humble Exploration Project

Drilling is expected to occur between mid-April to November on the exploration project site. It is anticipated that a maximum of 20 holes will be drilled during the 2012 field season.

Reclamation

All drill holes will be reclaimed concurrently with exploration. Diamond drill holes will be plugged with Volclay grout, a bentonite clay grout, or equivalent from bottom to top. Any bore hole making artesian water will be plugged according to Alaska Division of Mining, Land & Water requirements. No drilling mud or aqueous drilling solutions from the diamond bore holes shall be allowed to enter streams or wetlands.

Trash will be removed from the site on a daily basis. Drill hole cutting will be buried in sump pits (typically 10 ft x 4 ft in area), shoveled down the drill hole and raked into the soil. The disturbed surface will be re-contoured and reseeded with native vegetation as needed.

Fuel

Fuel for the equipment used in the proposed exploration project will be supplied from commercial facilities in Koliganek. No more than 5,000 gallons of fuel will be stored on the exploration project site staging area in Koliganek. More typically the maximum fuel storage will be 500 gallons or less per drill site. Fuel stored at the exploration project site staging area will be kept in double wall tanks inside lined fuel storage areas. Liners will have 110% capacity of the largest fuel tank stored in containment. Fuel storage areas at the drill sites will be a minimum of 100 feet away from any body of water and provide secondary containment for portable tanks or barrels temporarily stored at the sites. Emergency spill kits and absorbent material will be kept at each drill site.

Wildlife and Subsistence Use in the Area

The subsistence information below is based on Technical Paper No. 322 *Subsistence Harvests and Uses of Wild Resources in Igiugig, Kokhanok, Koliganek, Levelock, and New Stuyahok, Alaska, 2005* (Krieg, Holen, and Koster Alaska Department of Fish and Game, Division of Subsistence)

The wild resource harvests for Koliganek residents are focused along the Nushagak River upstream from Koliganek approximately 100 miles to Big Bend. The Nushagak River upstream from its confluence with the Nuyakuk River is considered the "main river." The population of Koliganek is approximately 182 people according to the 2000 US Census.

Fish is the most commonly harvested resource with Salmon being the dominant species. Fishing occurs from late May to late summer spawning along the Nushagak River from Koliganek to locations downstream as far as the village of Nushagak at Nushagak Point, and Ekuk. Koliganek residents harvested 92% of their estimated salmon harvest for home use with setnets, with 3% useable salmon being taken by rod and reel gear. Residents usually catch fish other than salmon by ice fishing. Freshwater fish species are harvested throughout the year along the Nushagak River with nets (mainly in the fall), and winter ice fishing targets Northern pike and Arctic grayling. The proposed project is not located in an area of known Koliganek salmon or other fish harvesting as shown on the attached map. The project is located in a drainage basin located upstream of the fish harvesting area, and as such, will monitor stream flows during operations to ensure the pumped water for drilling operations is not removing too much water from the streams to reduce potential fish habitats.

Caribou and moose are the next highest harvest level for the area, by weight, of subsistence foods. The caribou hunting area is along the major waterways covering about the same area as the moose hunting

2012 Plan of Operations
Humble Exploration Project

areas, but is much larger away from the waterways. The Nushagak River from Big Bend to the mouth of the lowithla, all of the Nuyakuk River, and the Mulchatna River upstream to the Stuyahok River were hunted for caribou and moose. Additional moose hunting occurs along the Stuyahok River, upstream on the Mulchatna River, and along about 20 miles of the Kuktuli River. Moose hunting season is open from August 20 through September 20, with bull-only hunting during the month of December. Local moose hunting is primarily restricted to rivers accessible by motor boats and hunting activities would not be affected by the exploration activities.

The Mulchatna caribou herd begins calving in early May and continues to calve through the first week of June. The population of the Mulchatna caribou herd for 2006 was estimated to be at about 45,000 animals, which is down from 85,000 in the 2004-2005 year. Helicopters and workers will avoid interaction with the caribou to the maximum extent practicable. When caribou are observed, helicopters will endeavor to maintain a minimum fly-over height of 1,500 feet above ground level and/or a horizontal separation of at least one mile as recommended by state habitat biologists. Caribou hunting season is open from August 1 to April 15. The proposed project is not located in an area of known Koliganek caribou hunting as shown on the attached map; however it is likely that moose or caribou will be present in the area of the project so operations (helicopters and drill pad locations) will avoid moose or caribou whenever possible.

Beavers, porcupines and snowshoe hare are the main resources harvested as a small mammal resource. Also included are red foxes, red squirrels, wolverines, land otters, martens, and grey wolves. The hunting area for small land mammals included a large area around Koliganek, the Nushagak River from the King Salmon River to about 5 miles downstream from the mouth of the Mulchatna River, the Nuyakuk River and the Mulchatna River up to the mouth of the Kuktuli River. The proposed project is not located in an area of known Koliganek small mammal hunting; however operations will aim to avoid interactions with small mammals whenever possible.

Berry picking occurs in the late summer beginning with salmonberries at the end of July. The berry harvest is concentrated along the major rivers around Koliganek, the Nushagak Bay area, the lower Nushagak River area around Dillingham, near Levelock, and locations along the Mulchatna River and Nushagak "main river" upstream to Harris Creek, and from a specific location on the Mulchatna River. The proposed project is not located in an area of known Koliganek berry or plant harvesting as shown on the attached map, however operations will aim to minimize effects on surrounding plant life by reclamation concurrent with exploration and removing all trash and waste material from site.

Migratory birds travel through the Nushagak River area in the fall and spring and are hunted extensively by the residents of Koliganek, along the Nushagak, Mulchatna, Nuyakuk, and Kvichak rivers. These rivers are used to access smaller waterways and tundra lakes in order to hunt waterfowl. The proposed project is not located in an area of known Koliganek waterfowl hunting or egg gathering as shown on the attached map. Operations will minimize influence on potential migratory bird populations on Site as mentioned above.

Access and Site Support

Access and exploration support will be via helicopter from the Koliganek area.

2012 Plan of Operations
Humble Exploration Project

Camp

No camp will be required, as workers will be housed off site in Koliganek and the Nushagak River Fishing Lodge near Ekwok and transported by helicopter. Each drill site will have an emergency shelter available (WeatherPort type tent). A bucket and bag system will be used for human waste. The waste will be transported off site for disposal.

Cultural Survey

Proposed exploration areas will be surveyed for cultural resources prior to work and those cultural resource surveys will be performed when the ground is not frozen and free of snow. Previously undiscovered cultural, archaeological or paleontological sites will be identified and appropriate agencies notified, but the sites will be avoided by relocating the exploration drill site.

Wetlands

A Clean Water Act Section 404 Permit is not required for the exploration drilling program because of its *de minimis* nature. And the exploration activities will be conducted under provision of Nation Wide Permit #6 Survey Activities.

PLAN MAP OF OPERATION

(25)

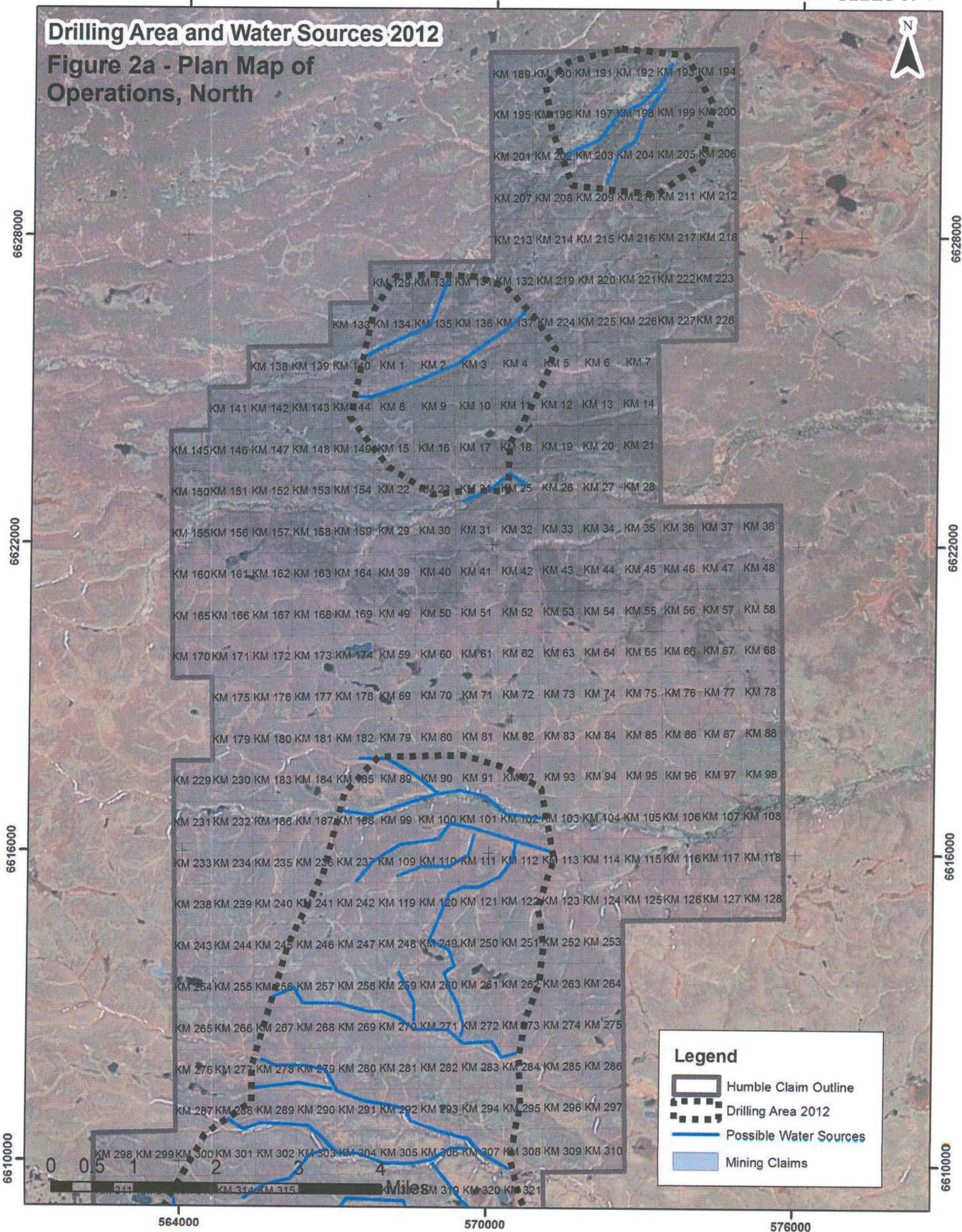
Please see Plan Map of Operation on Figures 2a, 2b, 3a, and 3b

(Attach Additional Sheets, Along With Detailed Explanations As Necessary)

PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO ENSURE THAT ALL REQUIRED ITEMS ARE INCLUDED
INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APPLICATION TO BE RETURNED



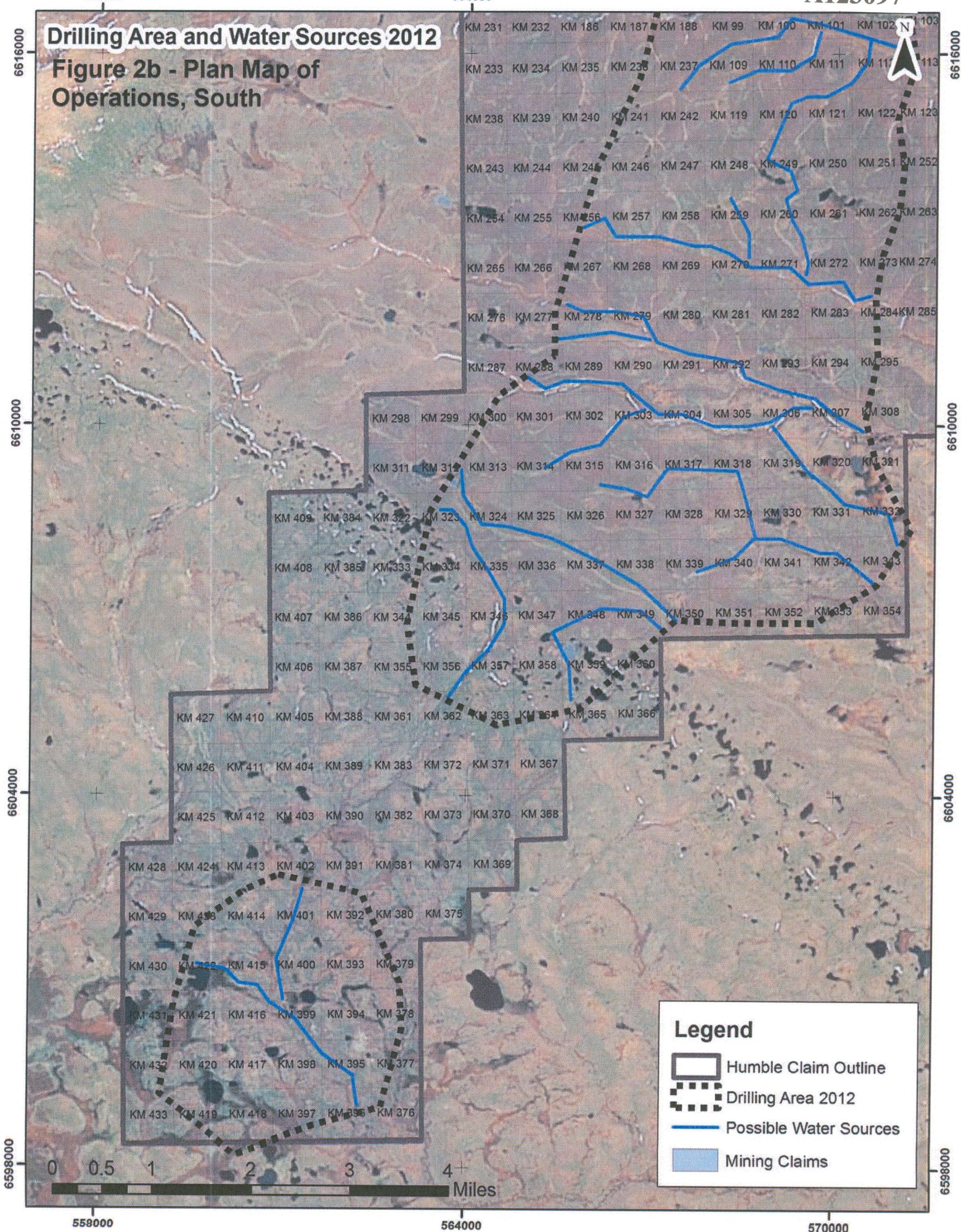
Figure 1: Humble property location.

Drilling Area and Water Sources 2012**Figure 2a - Plan Map of Operations, North**

558000

564000

A123097

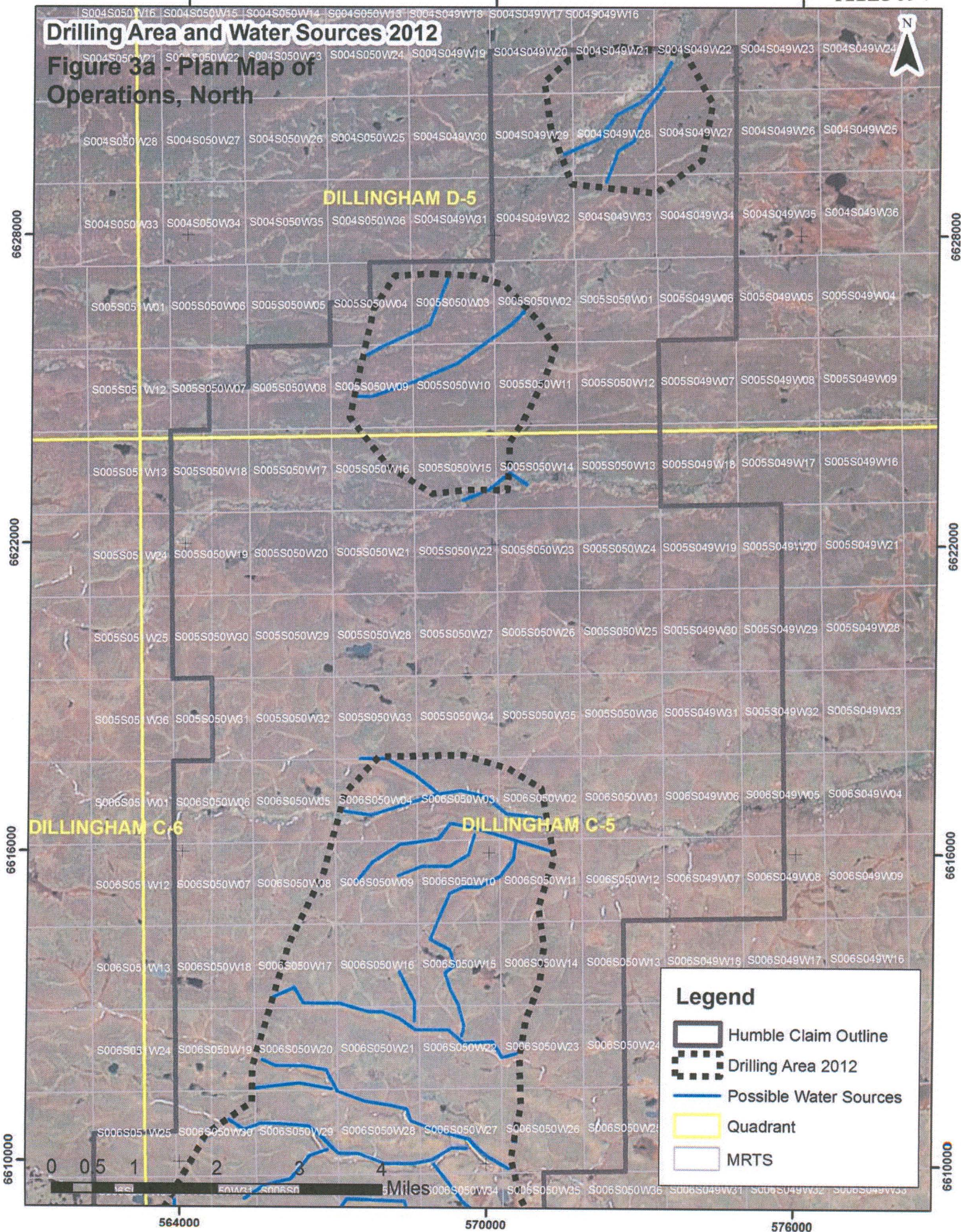
Drilling Area and Water Sources 2012**Figure 2b - Plan Map of Operations, South**

564000

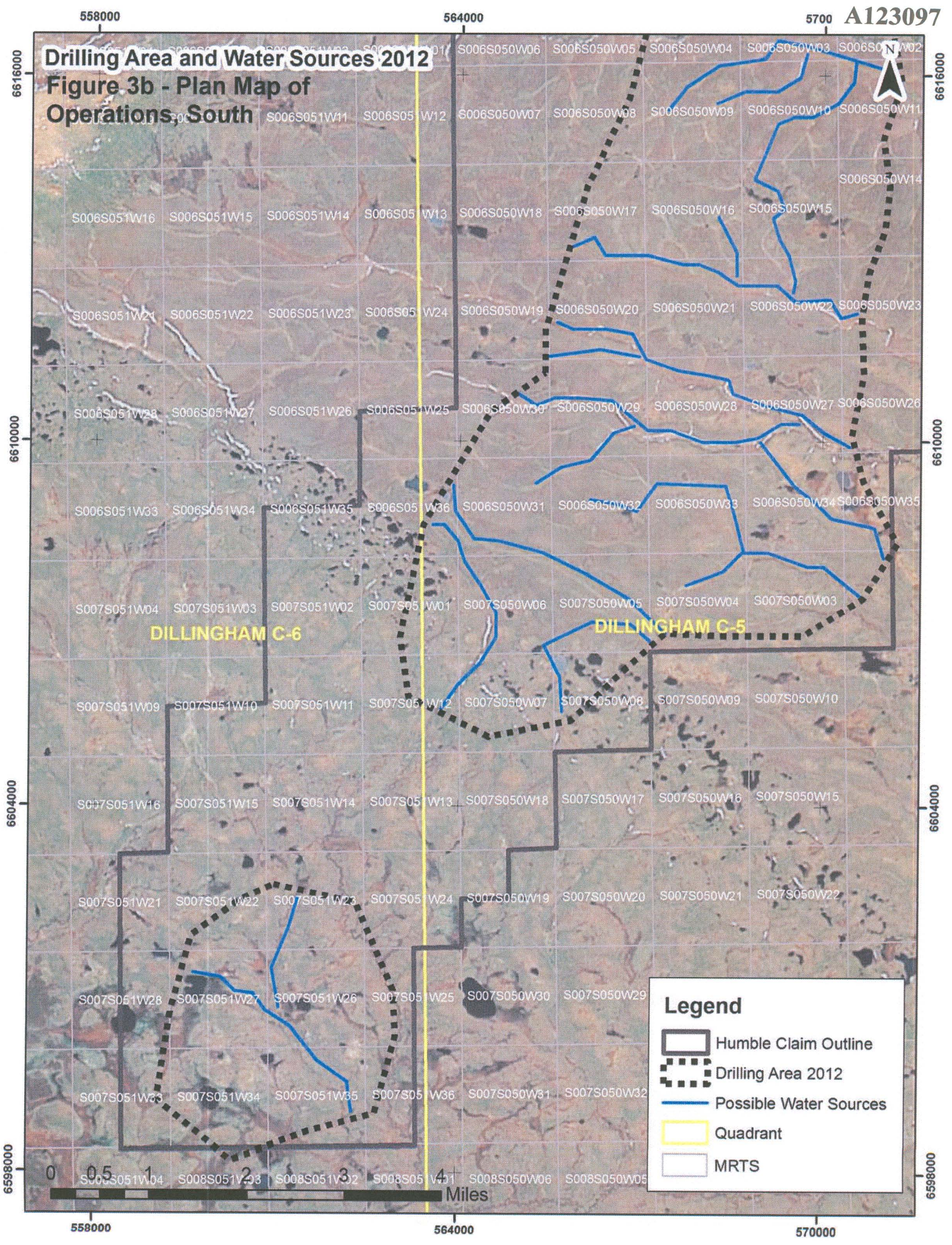
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Drilling Area and Water Sources 2012**Figure 3a - Plan Map of Operations, North**

Drilling Area and Water Sources 2012 **Figure 3b - Plan Map of Operations, South**



HARDROCK EXPLORATION

RECLAMATION PLAN

(26)

Check One:

☐ RECLAMATION PLAN
 (Disturbed Area 5 Acres Or Greater)

☒ LETTER OF INTENT TO DO RECLAMATION
 (Disturbed Area Less Than 5 Acres)

In accordance with Alaska Statute 27.19, reclamation is required of all exploration/mining operations. Reclamation bonding is required of operations with a disturbed area (all portions of the operation excluding camp and roads on state land) of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and "Letter of Intent To Do Reclamation" for operations under 5 acres. **If you do not intend to use the reclamation methods presented below, please provide additional information concerning your plans for reclamation under separate attachment.**

Total acreage currently disturbed: 0 acres. This should match line #7 on your 2012 Bond Pool Renewal Form if applicable. (Disturbed ground includes unreclaimed trenches; overburden; drill pads; disposal areas; and any other areas disturbed since October 1991 (State mining claims or Private land) or 1981 (Federal mining claims); and are currently unreclaimed. **Federal operators include area of camp and roads.**

New acres to be disturbed in 2012: 0.02 acres. Total acreage (currently disturbed plus new acres): 0.02 acres.

Of this acreage: 0.02 acres are State land. 0 acres are Private land. 0 acres are Federal land.

Total acreage to be reclaimed in 2012: 0.02 acres; and:

☒ Reclamation will be conducted concurrently with exploration. ☐ Reclamation will be conducted at the end of the exploration season.

Total volume of material to be disturbed in 2012: 88.9 cubic yards. (Including overburden to be removed)

Note: 1 acre of disturbance, 1 yard deep is equal to 4,840 cubic yards.

The following reclamation measures shall be used. (These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given as to why these measures are not necessary at your site.)

- ☒ Topsoil and overburden muck, not promptly redistributed to an area being reclaimed, shall be separated and stockpiled for future use. This material shall be protected from erosion and contamination by acidic or toxic materials and shall not be buried by broken rock.
- ☒ The area reclaimed shall be reshaped to blend with surrounding physiography using strippings and overburden, then be stabilized to a condition that shall retain sufficient moisture to allow for natural revegetation.
- ☒ Stockpiled topsoil and overburden muck shall be spread over the contoured exploration disturbance to promote natural plant growth.
- ☒ Exploration trenches shall be backfilled and the surface stabilized to prevent erosion. Brush piles, stumps, topsoil, and other organics shall be spread on the backfilled surface to inhibit erosion and promote natural revegetation. Exploration trenches shall be flagged and signs posted to notify the public of the existence of the open trenches. All exploration trenches shall be reclaimed by the end of the exploration season in which they are constructed, unless specifically approved by the Division of Mining, Land & Water.
- ☒ Shallow auger holes (limited to depth of overburden) shall be backfilled with drill cuttings or other locally available material in such a manner that closes the hole to minimize the risk to humans, livestock and wildlife.
- ☒ All drill hole casings shall be removed or cut off at, or below, ground level.
- ☒ All drill holes shall be plugged by the end of the exploration season during which they are drilled, unless otherwise specifically approved by the Division of Mining, Land & Water.
- ☒ All drill holes shall be plugged with bentonite holeplug, a benseal mud, or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole. The remainder of the hole will be backfilled to the surface with drill cuttings. If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug, a benseal mud, or equivalent slurry shall be placed immediately above the static water level in the drill hole. Complete filling of the drill holes, from bottom to top, with a bentonite holeplug, benseal mud, or equivalent slurry is also permitted and is considered to be the preferred method of hole closure.
- ☒ Upon completion of drilling activity, drill pads shall be reclaimed as necessary, including reseeding, to encourage natural revegetation of the sites and protect them from erosion.
- ☒ Roads and surface disturbance shall be held to a minimum. Exploration roads, drill pads and trenches shall be constructed in such a manner that vegetation and topsoil will not be buried beneath overburden or broken rock; this may require the use of a track excavator for construction of these facilities on slopes so as to allow for segregation of materials during construction and subsequent reclamation. Exploration roads will have water bars installed for erosion control, and at the end of the project will be reclaimed by backfilling, contouring, and spreading of organic rich overburden to promote stabilization and natural revegetation.
- ☒ All buildings and structures constructed, used or improved, on State land, will be removed, dismantled, or otherwise properly disposed of at the completion of exploration. The campsite will be cleaned up and left free of debris.
- ☒ Other: _____

IMPORTANT:

1. Alternative reclamation measures may be approved if the reclamation measures presented above are not applicable to your site. Please explain in separate correspondence. Submit a sketch and describe additional reclamation measures you propose to conduct at your exploration operation. Reclamation measures must comply with Alaska Statute 27.19.
2. Federal land managers may require reclamation measures different to those identified above.

BONDING

In accordance with Alaska Statute 27.19, bonding is required for all mining/exploration operations having a disturbance of five acres or greater on state land. This area must be bonded for \$750.00 per acre, unless the miner can demonstrate that a third party contractor can do the required reclamation for less than that amount. A Statewide bonding pool has been established and may be joined by completing the bond pool application form. Federal land managers may have additional bonding requirements. Use bond form to calculate area of disturbance for bonding.

Signature of Applicant

Relationship to Claim(s)

Date

☒ Owner ☐ Lessee ☒ Operator ☐ Agent for

02/02/12

Printed Name:

Sarah Whicker